

L 16889-63

EWI(1)/EWI(m)/EMP(q)/BDS

AFFTC/ASD/IJF(C) JD

ACCESSION NR: AP3005270

S/0056/63/045/002/0207/0213 58

AUTHOR: Logansen, L. V. 56

TITLE: On the possibility of resonance passage of electrons in crystals through a system of barriers 21

SOURCE: Zhur. eksper. i teoret. fiz., v. 45, no. 2, 1963, 207-213

TOPIC TAGS: quantum-mechanical system, potential barrier, resonance tunnelling, Fermi surface, crystal, dielectric barrier

ABSTRACT: The transmission coefficient of a one-dimensional quantum-mechanical system consisting of two potential barriers is considered to determine whether a continuous transition can be produced between different resonance effects by merely deforming the potential barriers without destroying the resonance that occurs when the energy of the incident particles coincides with that of the quasi-level in the well between the barriers. It is shown that in principle resonant tunnelling of electrons is possible in a semiconductor through two closely located dielectric layers that act as potential barriers of different heights. An external electric field can make the barriers equal and control the resonance current. The condi-

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ACCESSION NO: AP3005270

tions necessary for experimental realization of this effect are discussed. It is indicated that the magnitude of the resonance current depends on the shape of the Fermi surface of the main crystal. The reflection and transmission of the electrons through the dielectric barriers must be specular, and all mean free paths must be large compared with the thickness of the system. Scattering imposes a limit on the attainable resonance parameters in analogy with the behavior of light waves in the presence of two totally reflecting barriers. "I am grateful to L. V. Keldysh for pointing out an anomalous behavior of bismuth." Orig. art. has 2 figures and 7 formulas.

ASSOCIATION: None

SUBMITTED: 08Jan63

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: PH

NO REF SOV: 004

OTHER: 003

Card 2/2

ACCESSION NR: AP4042399

S/0056/64/047/001/0270/0277

AUTHOR: Iogansen, L. V.

TITLE: Resonance tunneling of electrons in crystals

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 1, 1964, 270-277

TOPIC TAGS: electron tunneling, electron resonance tunneling, resonance tunnel current, potential barrier, potential well

ABSTRACT: The tunnel current has been calculated in a system of two or three closely spaced potential barriers produced by dielectric layers in a conductor. It was found that when there is no scattering, the resonance tunnel current is very strong in comparison to the non-resonance current. The dependence of current on electric potentials V_2 and V_4 , applied to barriers 2 and 4 respectively, has been investigated for a two barrier system. It shows that with the change of V_2 , the resonance tunnel current reaches a maximum followed by a negative slope. The effect of electron scattering is taken into account. Scattering decreases the resonance tunnel current through the barrier system due to the appearance of a resonance scattering

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ACCESSION NR: AP4042399

current. Resonance tunnel current may become saturated. The resonance transmittance is calculated for a three barrier system. It is found that the resonance tunnel current has a sharp maximum if the quasi-levels in the neighboring wells coincide. Orig. art. has: 21 formulas and 3 figures.

ASSOCIATION: Moskovskiy filial Kiyevskogo instituta grazhdanskogo vozdushnogo flota (Moscow Branch of the Kiev Institute of the Civilian Air Force)

SUBMITTED: 23Jan64

ATD PRESS: 3067

ENCL: 00

SUB CODE: NP, EM

NO. REF SOV: 003

OTHER: 003

Card 2/2

L 2935-66 EWA(k)/FBD/EWT(1) EEC(k)-2/T/EWP(k)/EWA(m)-2/EWA(h) SGTB/IJP(c) W3

ACCESSION NR: AP5024370

UR/0206/65/000/015/0042/0042
535.853.89

AUTHOR: Logansen, L. V.

TITLE: An electromagnetic resonance capacitor with total internal reflection.
Class 21, No. 173269

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 42

TOPIC TAGS: optic pumping, light pipe, laser optics, optic waveguide

ABSTRACT: This Author Certificate introduces an electromagnetic resonance capacitor with total internal reflection which uses resonance diffraction for pumping waves into a coaxial light guide. The capacitor is made in the form of a dielectric waveguide surrounded by a dielectric coaxial shell with a lower index of refraction and placed in a dielectric with a higher index of refraction for pumping the waves into the waveguide (see Fig. 1 of Enclosure). Orig. art. has: 1 figure. [14]

ASSOCIATION: none

SUBMITTED: 30Mar64

NO REF SOV: 000

Card 1/2

ENCL: 01

OTHER: 000

SUB CODE: EGP

ATD PRESS 7/108

L 2935-66

ACCESSION NR: AP5024370

ENCLOSURE: 01

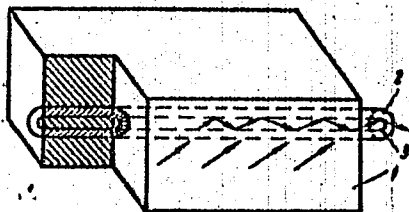
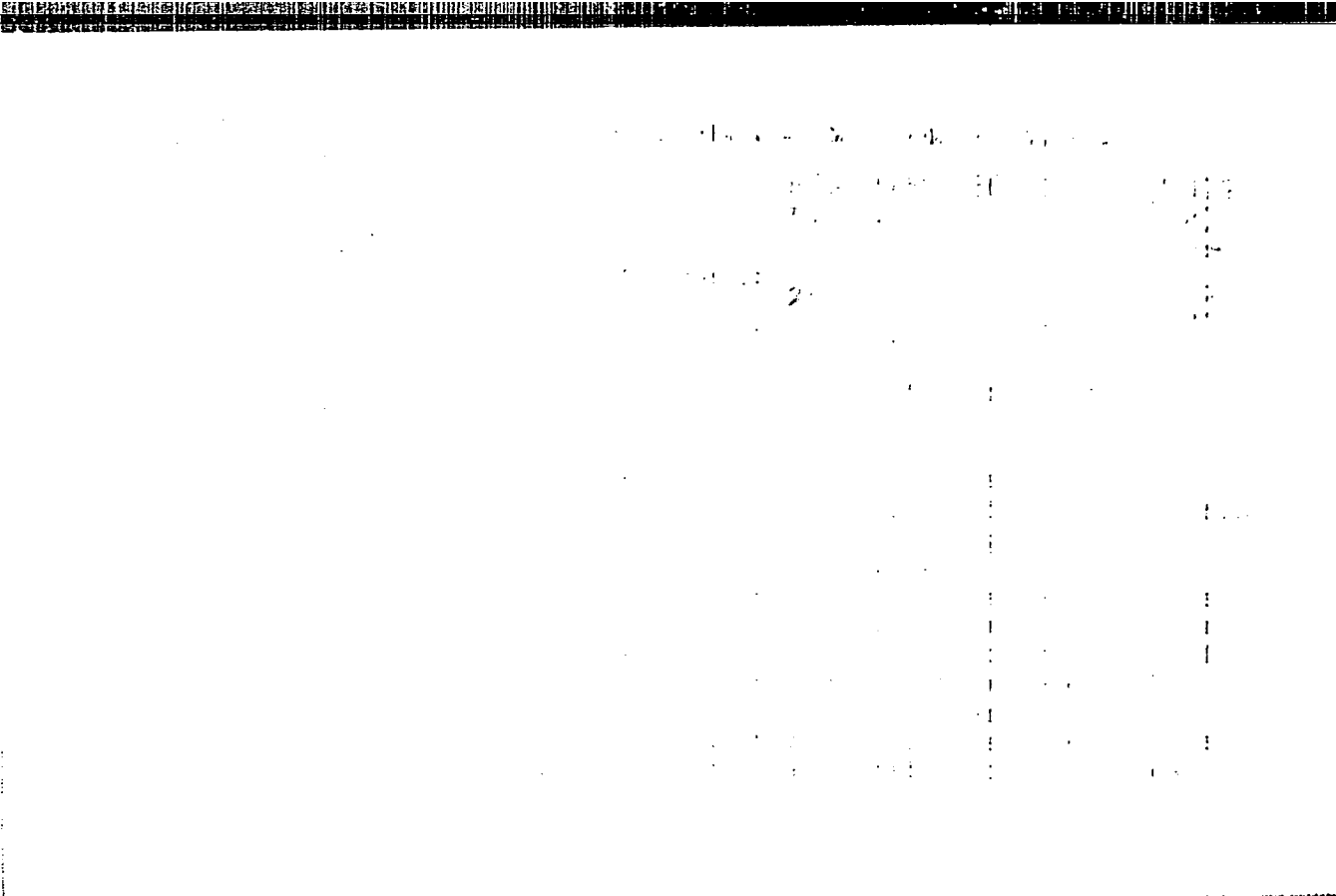
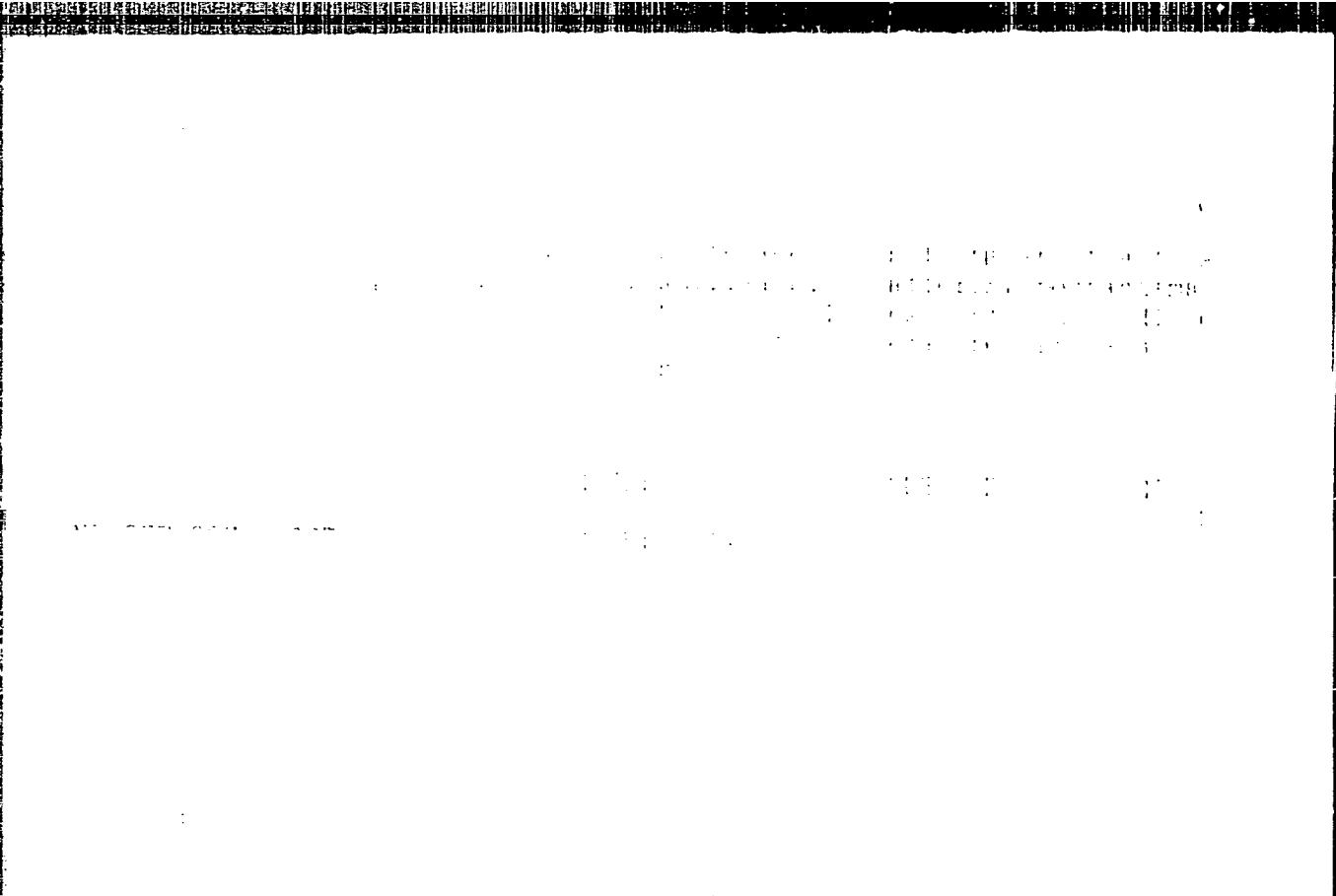


Fig. 1. Electromagnetic resonance capacitor.

- 1 - Dielectric; 2 - waveguide shell,
- 3 - waveguide.

PC
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L 11996-66 ENT(1) 1JF(C)

ACC NR: AP5022864

SOURCE CODE: UR/0051/65/019/005/0403/0408

AUTHOR: Iogansen, L. V.

ORG: none

TITLE: Total internal reflection filter. IV.

SOURCE: Optika i spektroskopiya, v. 19, no. 3, 1965, 403-408

TOPIC TAGS: optic filter, optic coating, light reflection, optic research

ABSTRACT: The first three parts of the article were published in Opt. i spektr. v. 12, 318, 1962; v. 13, 18, 1962; and v. 14, 67, 1963. In this paper the author considers the smoothness and parallelism requirements that must be satisfied by a total internal reflection filter, using for this purpose calculations that take account of various layer defects. It is shown that earlier calculations by others are valid only when the dimensions of the nonuniformities in the layer are large compared with the characteristic resonance diffraction length, but in practice this length is usually so large that the uniformities are small in comparison. It is shown furthermore that a total-reflection filter is very sensitive to regular wedge-type nonuniformities of the resonator but is less sensitive to irregular random steplike nonuniformities. Since regular nonuniformities can be avoided, an optical filter with very narrow transmission band and high resolution may become feasible. In particular, the wedge defect can be avoided by appropriate choice of geometrical conditions during the evaporation of the layers. Random irregular nonuniformities of the thickness of

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UDC: 535.345.6 : 535.394

L 11996-66

ACC NR: AP5022864

the resonator average out because of the oblique incidence of the light and have a much smaller effect than assumed before. Inasmuch as the experiments reported in the literature at present date back some 15 years, it is concluded that new experimental studies of total-reflection filters, with an aim at checking the calculations in the article, are advisable and would yield valuable information on the structure of thin films, and may possibly lead to the construction of optical instruments of practical interest. Orig. art. has: 2 figures and 16 formulas.

SUB CODE: 20/ SUBM DATE: 10Jun64/ ORIG REF: 005/ OTH REF: 003

HW
Card 2/2

L 22257-66 EWT(1)/EWT(m)/T/EWP(t) IJP(c) GG/AT/ND

ACC NR:

AP6010992

SOURCE CODE: UR/0056/66/050/003/0709/0716

AUTHOR: Iogansen, L. V.

ORG: Kiev Institute of the Civil Air Fleet (Kiyevskiy institut grazhdanskogo vozdušnogo flota)

TITLE: Scattering of conduction electrons in very thin films

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 3, 1966, 709-716

TOPIC TAGS: thin film, conduction electron, electron scattering, metal film, phonon

ABSTRACT: Scattering of conduction electrons in very thin semimetallic films in which the de Broglie wavelength is comparable with the film thickness is calculated in the effective mass approximation. The probability for scattering of electrons on phonons, on electrons, and on geometrical defects of the film surface is computed. It is assumed that the mean-free-path of the electron is large compared with the film thickness and that reflection of electrons from the boundary is mainly of a specular nature. When the possible electron states are represented in momentum space, they are shown to be arranged in layers;

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ACC NR: AP6010992

0

a certain value of quantized transverse energy corresponds to each given layer. Longitudinal scattering of electrons is related only to rotation of quasi-momentum of longitudinal electrons. Transverse scattering is accompanied by transition of the electron from one layer to another. It is found that owing to the conservation of longitudinal quasi-momentum, elastic transverse transitions can be induced only by phonons of finite energy. Therefore, at low temperatures (when these are absent), transverse electron-phonon scattering is associated only with spontaneous emission of phonons. If the latter is forbidden, as in the case of a normal metal, the scattering probability drops exponentially with the decreasing temperature. Transverse electron-electron scattering due to transitions between layers of different parity is forbidden in a film with identical conditions on both surfaces as a consequence of symmetry, and there is no electron-electron transverse scattering in the second layer. The probability of longitudinal electron-electron scattering increases proportionally to the cube of the longitudinal quasi-momentum. Owing to quantization of the transverse motion, the electron transverse diffusion reflection coefficient of the film surface is strongly suppressed as compared to the diffusion coefficient of a single surface.

[CS]

SUB CODE: 20/ SUBM DATE: 20Sep65/ ORIG REF: 004/ OTH REF: 004/

Card 2/2. nst

ACC NR: AP6036037

SOURCE CODE: UR/0057/66/036/011/2056/2063

AUTHOR: Iogansen, L. V.

ORG: none

TITLE: Theory of resonance electromagnetic systems with total internal reflection. Part 3

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 11, 1966, 2056-2063

TOPIC TAGS: electromagnetic wave, microwave resonance capacitor, reflecting barrier, resonance pairing, electromagnetic wave radiation, electromagnetic wave oscillation, electromagnetic wave phenomenon, magnetic resonance

ABSTRACT: A computation is made of the emission of an electromagnetic wave from a resonance capacitor. It was found that the intensity of the wave emitted from the surface of the resonator decreases exponentially with displacement along the resonator decreasing e times for length $\frac{l_0}{2}$. Computations are made for a resonance capacitor in which the thickness of a totally reflecting barrier varies with displacement along the resonator. Under the logarithmic law on variations in

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UDC: 538.565

ACC NR: AP6036037

barrier thickness, the resonance capacitor radiates an ideally flat monochromatic wave from the entire surface. Furthermore, the phenomenon is wholly reversible, i. e., by satisfying conditions for resonance, the incident flat monochromatic wave penetrates completely into the resonance capacitor. No reflected waves arise under these circumstances. The effect of resonance pairing of two flat dielectric resonators divided by a totally reflecting barrier is computed. The pairing effect which was observed earlier between the filaments of a light conductor (pipe guide), is in a state of resonant wave transfer between the resonators. A wave set in motion along one of the resonators for a length l_c passes completely into the second resonator, then transfers back, and so on, i. e., the amplitude of the waves in the resonators oscillates in space, forming a distinctive picture of spatial pulsations. The length along which pairing takes place is $l_c \ll l_0$. [SP] [Author's abstract]

SUB CODE: 20/SUBM DATE: 26Feb65/ORIG REF: 002/OTH REF: 002/

IOGENSEN, N.I, Cand Tech Sci — (diss) "Study of conditions *of* *for*
use
~~employment~~ of sectional and non-sectional chambers of dry docks."

Len, 1959. 14 pp (Len Inst of Water Transport). 150 copies

(KL, 39-59, 104)

47

Logan
IOGANSEN, S.

Using transistors. IUn.tekh.no.12:60-61 D '57. (MIRA 10:12)
(Radio--Receivers and reception) (Transistors)

KROL', B.B.; ZHERDEVA, L.G.; ~~IOGENSEN, V.~~; ROZANOVA, E.I.

Composition and properties of aromatic hydrocarbons isolated
from the 300°-400° distillate of Tuymazy oil. Trudy VNII NF
no.7:48-62 '58. (MIRA 12:10)
(Tuymazy--Petroleum) (Hydrocarbons)

STETSENKO, V.I., otv. red.; MARKOVSKIY, Ye.A., red.; IQGANSEN, V.S.,
red. DEM'YANENKO, T.P., red.; LABINOVA, N.M., red.

[Use of radiation in automation, isotopes and nuclear radiation in science and technology] Radiatsionnaya avtomatika, izotopy i iadernye izlucheniya v nauke i tekhnike. Kiev, 1964. 193 p. (MIRA 17:8)

1. Akademiya nauk URSR, Kiev.

L 5156-66 EWT(1)/EMA(h)/ETC(m) DIAAP WX

ACC NR: AP5025051

SOURCE CODE: UR/0286/55/000/016/0091/0092

AUTHORS: Iogansen, V. S.; Steblovskiy, I. A.; Stetsenko, V. I.; Ivancov, A. M.

ORG: none

TITLE: Radioisotopic level gage. Class 42, No. 173972

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 91-92

TOPIC TAGS: radiation detector, radioisotope, radiation source, electric circuit

ABSTRACT: This Author Certificate presents a radioisotopic level gage with a mobile source, a receiver of ionizing radiation, and a follow-up system. To increase the range of measurement oscillation level, an open trolley system is included, along the direction of movement of the radiation receiver. The trolley system consists of two cables (or wires) and two current extractors forming a connection between the radiation detector and the following electric circuit: (see Figure 1).

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UDC: 681.128.6

09010249

L 5156-66

ACC NR: AP5025051

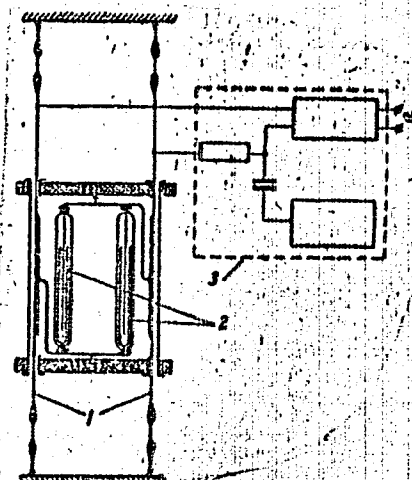


Fig. 1.

1- wires; 2- radiation detector;
3- electric circuit

Orig. art. has: 1 figure.

SUB CODE: KP, EG/

SUBM DATE: 17Apr63

Card 2/2 *MD*

FRCLCVSKIY, P.A.; Prinimali uchastiye: ANDERS, V.R.; REMNEV, V.F.;
BULAKH, Ye.S.; KHURSHUDYANTS, I.K.; YATSENKO, F.G.; TARASOV, A.I.;
IOGANSON, A.V.; LULOVA, N.I.; KURDRIYAVTSEVA, N.A.

Kh.L-3 laboratory chromatograph. Khim. i tekhn. topl. i masel
6 no.7:44-49 J1 '61. (MIRA 14:6)

1. Spetsial'noye konstruktorskoye byuro po avtomatike v nefte-
pererabotke i neftekhimii.

(Gas chromatography)

IOGANSON, M. Ye

Ioganson, M. Ye. - "The clinical manifestations of psychotic changes from poisoning by tetraethyl lead," Trudy Krymsk. med. in-ta im. Stalina, Vol. XII, 1948, p. 353-57

SO: U-3950, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

IOGANSOON, N. YE.

FA 30/42728

USSR/Electricity

Oct 46

Electrical Equipment
Circuit Breakers

"VMC Contact Breaker in Boxes With Reduced Clearance," N. Ye. Ioganson, Engr, 2 p

"Elek Stants" Vol XIX, No 10

Describes how subject breakers must be modified to fit in switchgear boxes installed in existing circuits.

10/42728

LOGANSON, N. Ye.

Electrical Engineering Abst.
Vol. 57 No. 675
Mar. 1954
Telecommunication

621.398 : 621.311.4
1313. Remote control of electric stations without the
use of powerful accumulators. N. Ye. LOGANSON AND
I. G. KUZICHKIN. *Elekt. Standart*, 1953, No. 7, 33-5.
In Russian.

A description with detailed sketches of a spring-
aided drive for automatic control gear, which elimi-
nates the need for accumulators in small and medium
power automatic substations. R. OUPLOW

5/26/54jp

IOGANSON, N.Ye., inshener; KUZICHKIN, I.G.

Control current used in electric power plant without storage
batteries. Elek. sta. 25 no. 1:42-45 Ja '54. (MIRA 7:1)
(Electric power plants)

Ioganson, N. Ye.

AID P - 2069

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 11/29

Authors : Ioganson, N. Ye., and Kuzichkin, I. G., Engs.

Title : ~~Protection and control of a medium-size power generator~~
by two-coil switch-operating mechanisms.

Periodical: Elek. sta., 4, 38-40, Ap 1955

Abstract : The authors describe in detail a two-coil device actuating the operating mechanism of circuit breakers. They maintain that this device simplifies considerably the differential and over current relay protection of the generator, with capacities up to 6,000 kw. The use of these devices is strongly recommended. Four diagrams.

Institution: None

Submitted : No date

Ioganson, N. E.

AID P - 2069

Subject : USSR/Power

Card 1/1 Pub. 26 - 22/31

Author : Ioganson, N. E., Eng.

Title : ~~Minimum voltage disconnecting mechanisms equipped with~~
a time control device for ac drives.

Periodical : Elek. sta., 11, 54-56, N 1955

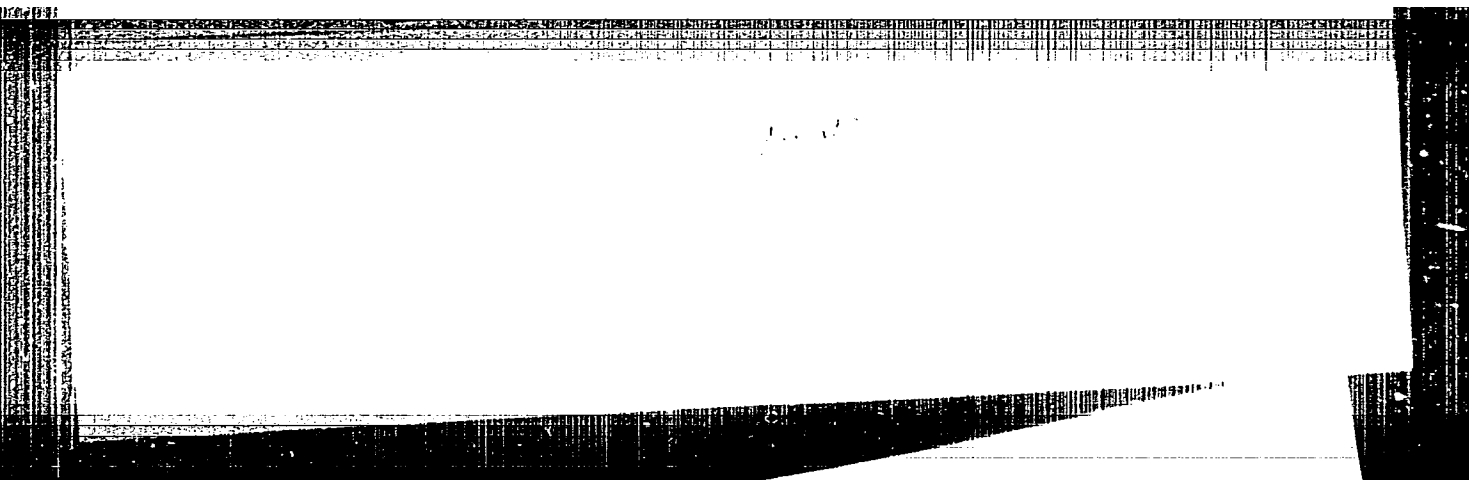
Abstract : The description of a time control device built in a disconnecting coil with minimum voltage is given in detail. Four diagrams.

Institution : None

Submitted : No date

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618630009-8



APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618630009-8"

AUTHOR: Ioganson, N.K., Engineer. 104-4-22/40
 TITLE: Semi-conductor generators of operating current. (Polu-
 provodnikovye generatory operativnogo toka)
 PERIODICAL: "Elektricheskie Stantsii", (Power Stations), 1957,
 Vol. 28, No. 4, pp. 74 - 75 (U.S.S.R.)

ABSTRACT: Small steam turbine driven power stations with sets of
 2.5 - 6 MW may be operated without accumulator batteries if
 the current protection is operated from current transformers
 and remote protection of circuit breakers and automatic equip-
 ment is operated from voltage transformers. However, the
 operation of opening circuit breakers can also be effected by
 semi-conductor thermo-couples using waste heat of furnace
 gases in the smoke stack. This has the advantage over opera-
 tion on a short circuit does not affect the operating current
 which remains even if the main voltage is cut off.
 The semi-conductor research institute of the Academy of
 Sciences of the USSR has developed and passed over for manu-
 facture thermocouple generators with an output of 3 W for
 radio receivers and of 16 W for radio transmitters. The hot
 junctions are heated by kerosene burners and the cold
 junctions are air cooled. It would now be possible to build

1/2

IOGANSON, N.Ye., inzh.; KOZLOVA, V.F., inzh.; MIKHAYLOV, V.V., kand.tekhn.nauk

Testing the a.c. protection for generators. Elek. sta. 29 no.7:52-54
Jl '58. (MIRA 11:10)

(Electric generators)

KRIKUNCHIK, A.B., insh.; LOPSHITS, L.M., insh.; IOGANSOY, N.Ya., insh.; SUMAROKOV, B.P., insh.; KUDRYASHOV, S.A., insh.

Distribution system of 6-10 kv. with reactors on the external connectors.
(MIRA 11:11)
Elek. sta. 29 no.10:79-83 0 58.

1. Teploelektroproyekt. (for Krikunchik, Lopshits). 2. Promenergoprojekt (for Ioganson, Sumarokov). 3. Knybyshevskoye otdeleniye Elektoprojekta (for Kudryashov).
(Electric power distribution)

GRINBERG, A.A., inzh.; ZHILIN, A.P., inzh.; SERGOVANTSEV, V.T., kand.tekhn.
nauk; IOGANSON, N.Ye., inzh.; AL'TSHULLER, S.Z., inzh.

Power supplying circuits for electric drives of fuel feeding
systems. Elek.sta.. 31. no.6:87-89 Je '60. (MIRA 13:7)
(Electric power plants--Equipment and supplies)
(Stokers, Mechanical--Electric driving)

IOGANSON, R. A. (Engr.)

"Investigation of Inductor Brakes and Sliding Sleeves." Cand Tech Sci, Moscow Order of
Lenin Power Engineering Inst imeni V. M. Molotov, 19 Feb 54. Dissertation (Vechernnyaya
Moskva Moscow, 10 Feb 54)

SO: SUM 186, 19 Aug 1954

LEYBZON, Yakov Izrailevich; MILICH, Mikhail Borisovich;
IOGANSON, R.A., red.

[Regulated a.c. drives with inductor slide clutches]
Reguliruemye elektroprivody peremennogo toka s in-
duktornymi muftami skol'zheniia. Moskva, Energiia, 1965.
56 p. (Biblioteka elektromontera, no.160)

(MIRA 18:7)

PROPP, M.V.; IOGANSEN, V.S.; KOTLETISOV, B.N.

Submarine motion picture camera for research work. Okeanolo-
giia 2 no.6:1110-1111 '62. (MIRA 17:2)

10GANDON, V. Ye.										PROCESSING AND PROPERTY INDEX																																																																																																																																																																																																																	
AMS/11B (Valentina yuzimovs-)										APR 1951																																																																																																																																																																																																																	
<p>24-149</p> <p>10GANDON, V. Ye. O razdelenii goda na gidrologicheskie sezonny i ustoychivye sledyayee raznoobrazie. (Division of the year into hydrological seasons in the plain of European U.S.S.R.) <i>Problemy Prirodnoi Geografii</i>, 1949, 148, 5 sides, 5 refs. D.L.C.—The author analyzes the seasonal distribution of runoff in various rivers of European Russia. Data are given on the average date of beginning of flood water and its duration; mean monthly distribution of runoff in percent of total annual runoff; mean percent runoff during spring and percent snow melt and runoff during spring. The hydrological characteristics of the various seasons are described. It is shown that they differ in the southern, central and northern parts of the U.S.S.R.; within these areas the runoff phases occur simultaneously. The hydrological seasons are not fixed; the date of beginning of spring flood is of fundamental importance in determining the time of the hydrological seasons. <i>Subject Headings: Russia, Seasonal effects, U.S.S.R.—I.L.D.</i></p>										<p>24-149</p> <p>10GANDON, V. Ye. O razdelenii goda na gidrologicheskie sezonny i ustoychivye sledyayee raznoobrazie. (Division of the year into hydrological seasons in the plain of European U.S.S.R.) <i>Problemy Prirodnoi Geografii</i>, 1949, 148, 5 sides, 5 refs. D.L.C.—The author analyzes the seasonal distribution of runoff in various rivers of European Russia. Data are given on the average date of beginning of flood water and its duration; mean monthly distribution of runoff in percent of total annual runoff; mean percent runoff during spring and percent snow melt and runoff during spring. The hydrological characteristics of the various seasons are described. It is shown that they differ in the southern, central and northern parts of the U.S.S.R.; within these areas the runoff phases occur simultaneously. The hydrological seasons are not fixed; the date of beginning of spring flood is of fundamental importance in determining the time of the hydrological seasons. <i>Subject Headings: Russia, Seasonal effects, U.S.S.R.—I.L.D.</i></p>																																																																																																																																																																																																																	
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5.3-261
 Logans, V. E., O. Hidrologicheskoye raznoobrazie SSSR. (Hydrological regionalization of the U.S.S.R.) *Voprosy Geografi, Gidrologiya*, No. 26:13-19, 1951. 2 figs, refs. 111C--
 Author presents a statistical survey of methods used for dividing the Soviet Union in hydro-
 logical regions and proposes to use for this purpose the ratio $r = \text{evapotranspiration/precipitation}$.
 Maps of r with forest zones presented for the European part. $r < 1$ - rainfall zone, $1 < r < 2$ -
 intermediate zone, $r > 2$ - evaporation zone. Isopleths $r = 1$ lies on 60°N ; $r = 2$ on 51°N (roughly
 coincides with the southern limit of forests). Further subdivisions are essential in the basin
 of the seasonal distribution of rainfall. Subject Headings: 1. Hydrologic regionalization. 2. Hydro-
 precipitation. U.S.S.R. A.A.

1. IOGANSON, V. YE.
2. USSR (600)
4. Geology and Geography
7. Flow of Rivers and Seasonal Currents in Forest-Steppe and Steppe Zone Territory of the European Part of USSR, K. P. Voskresenskiy. (Works of State Hydrological Institute, No. 29 (83), Leningrad, Hydromet Press, 1951). Reviewed by V. Ye. Ioganson, Sov. Kniga, No. 6, 1952.
9. FDD Report U-3081, 16 Jan 1953, Unclassified.

LOGANSON, V. E.

356-270 311,586,716
 Loganov, V. E. and Fedotkin, I. A. Sovetskaya klimatologicheskaya i meteorologicheskaya literatura [Conference on climatological and meteorological investigations in the Caspian region]. Atmosferi Nauk SSSR, Izvestiya, Ser. Geograficheskaya, No. 2:21-25, 1952. DLO—This is an account of the conference called by the Institute of Geography of the Academy of Sciences and the Complex Expedition on questions of forest belt translocation. It was attended by representatives of organizations and institutions interested in investigations and projects concerning reclamation in the Southern part of European U.S.S.R. It includes a list of papers read at the conference, the names of their authors and a summarization of their content. Papers were: 1) To what extent have we mastered the problem of dry winds (sukhovyi) formation by G. N. Vlasovskii; 2) Results of investigation of arroyo-like conditions of dry wind (sukhovyi) formation by B. L. Dymovskii; 3) Investigations of the frequency of days with dry wind and weather in Middle Asia and the Caspian depression by I. A. Fedotkin; 4) Results of investigations of evaporability in the Caspian depression by V. E. Loganov; 5) Variations of temperature and humidity gradients at 2 and 1.5 meter height in various conditions of weather; 6) E. V. Likhosheva and M. E. Likhosheva, Results of microclimatic observations in Volga valley; 7) G. A. Drogov, Anticyclonic changes of the water economy and precipitation conditions in the south and southwest part of European U.S.S.R. after completion of amelioration measures; 8) A. M. Osipov, A review of the work accomplished at the Geographical Institute during 1945-1949. Subject headings: 1. Climate; 2. Conference; 3. European U.S.S.R. — A.M.P.

IOGANSON, V. [Ye.]

Caspian Depression - Climate

Not far from Stalingrad (Expedition of climatologists to the Caspian Depression).
Vokrug sveta No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 195~~8~~₂, Uncl.

IOGANSON, V. YE.

May 53

USSR/Geophysics - Floods

"Control of Mud-Rock Flows," V. Ye. Ioganson

Priroda, No 5, pp 60-63

Presents results of the Third All-Union Conference for the Study of Floods, held Oct 52 in Tbilisi. Twenty reports were presented on the general problem of floods, dynamics of flood currents, geographical distribution of floods, field methods for the study of floods, soil-erosion effect on basins, projects for conducting surveys of flood danger areas, and actions against floods.

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1
IOGANSON, V.Ye. kandidat geograficheskikh nauk.

Torrential floods. Nauka i zhizn' 20 no.6:17-18 Je '53.

(MLBA 6:6)

(Floods)

IOGANSON, V.Ye.

Evgenii Varfolomeevich Blizniak; on the occasion of his
75th birthday. Izv.AN SSSR. Ser.geog. no.5:135-136 S-O
'56.

(MLRA 9:11)

(Blizniak, Evgenii Varfolomeevich, 1881-)

YERMAKOV, A.V.; IOGANSON, V.Ye.

All-Union conference on land-eroding flood waters. Priroda 46
no.4:107-108 Ap '57. (MLRA 10:5)

1. Institut geografii Akademii nauk SSSR (Moskva).
(Floods) (Hydraulic engineering)

LOVANSUN, V. Ia., S. P. KAVETSKOI, I. V. BOGOLYUBOVA, M. M. AKZENBERG and others

Reported on the study of flood waters and on catastrophic floods in mountainous districts.

report presented at the 3rd All-Union Hydrological Congress, 7-17 Oct 1957, Leningrad.

(Izv. Ak Nauk SSSR, ser geograf., 3, pp3-9, '58)

~~TOGANSO, V.Ye.~~
TOGANSO, V.Ye.

High flood of the Kuro River on August 8, 1955. Izv. AN SSSR. Ser.
geog. no.6:87-90 N-D '57. (MIRA 11:1)

1. Institut geografii AN SSSR.
(Kuro River--Flood)

YERMAKOV, A.V.; IOGANSON, V.Ye.

Ukrainian conference for the study of torrential streams and
measures of controlling them. Izv. AN SSSR, Ser. geog. no.6:174-
176 N-D '57.

(MIRA 11:1)

(Floods)

LOGANSON, V.Ye., kand.geograficheskikh nauk

Floods in mountain rivers. Priroda 49 no.8:126-140, 1960.
(MIRA 13:8)

1. Institut geografii AN SSSR, Moskva.
(Floods)

YERMAKOV, A.V.; IOGANSON, V.Ye.

Scientific results of the conference on erosion and flash flood
control. Izv. AN SSSR. Ser. geog. no.1:164-166 Ja-F '61.

(Erosion--Congresses)

(MIRA 14:2)
(Floods--Congresses)

YERMAKOV, A.V.; IOGANSON, V.Ye., kand.geograficheskikh nauk

Let's preserve and increase our mountain resources. Priroda 50
no.6:60-63 Je '61. (MIRA 14:5)

1. Institut geografii AN SSSR, Moskva.
(Erosion control) (Forest and forestry)

IOGANSON, V.Ye.

Mapping the factors of mudflow flood formation. Izv. AN SSSR.
Ser. geog. no.5:102-104 S-O '62. (MIRA 15:10)

1. Institut geografii AN SSSR.
(Georgian Military Road region--Landslides--Maps)

IOGANSON, V. Ye.

Results of the Fifth All-Union Conference on the Study of Mudflows
and their Control. Izv. AN SSSR. Ser. geog. no. 3:146-147 My-Je
'63. (MIRA 16:8)
(Landslides--Congresses)

IOGANSON, V.Ye.

Conference on the hydrometeorology of mountainous countries. Izv.
AN SSSR. Ser. geog. no.4:155-156 JI-Ag '63. (MIRA 16:8)
(Hydrometeorology—Congresses)

SHCHEGLOVA, O. P., kand. fiz.-matem. nauk; LUT, B. P.; MECHITOV, I. I.,
kand. tekhn. nauk (Tbilisi); IVERONOVA, I. M., kand. geograf.
nauk (Moskva); IOGANSON, V. Ye., (Moskva); LARIONOV, P. M.
(Uzhgorod)

Mud torrents. Prioroda 52 no.1:90-96 '63. (MIRA 16:1)

1. Tashkentskiy gosudarstvennyy universitet im. V. I. Lenina
for Shcheglova). 2. Baykal'skaya limnologicheskaya stantsiya,
poselok Listvenichnoye, Irkutskaya obl. (for Lut).

(Runoff) (Erosion)

IOGANSON, V.Ye.; CHERNOUS, K.A.

Torrential floods in the Novorossiysk region and their control
by afforestation. Vop. geog. no.60:140-148 '63.

(MIRA 16:6)

(Novorossiysk region—Flood control)

(Novorossiysk region—Afforestation)

IOGANSON, V.Ye.

Review of the activities of the Hydrological Commission for
1948-1961. Vop. geog. no.60:149-155 '63. (MIRA 16:6)

(Hydrology--Research)

LOPATIN, G.V., doktor geogr. nauk, otv. red.; IOGANEON, V.Ye.,
kand. geogr. nauk, red.; GAGOSHIDZE, M.S., prof., red.;
DUMITRASHKO, N.V., doktor geogr. nauk, red.; KOCHERGA,
F.G., kand. sel'khoz. nauk, red.; SRIGNYY, M.F., doktor
tekhn.nauk, red.; CHUBUKOV, L.A., doktor geogr. nauk,
red.

[Mudflows of the U.S.S.R. and measures for controlling
them] Seli v SSSR i mery bor'by s nimi. Moskva, Izd-vo
"Nauka," 1964. 280 p. (MIRA 17:6)

1. Akademiya nauk SSSR. Institut geografii.

IOGANSON, Ye. I.

The Utilization of the Energy of Rivers in Hydroelectric Power Stations
(Ispol'zovaniye energii rek na gidroelektrostantsiyakh), Gosenergoizdat, 56 pp, 1951.

Book W-22517, 29 Apr 52

1. IOGANSOY, Ye. I.
2. USSR (600)
4. Runoff
7. Practical hydrometry. A. A. Luchshcheva. Reviewed by Ye. I. Ioganson. Sov. kniga. No. 9, 1952.
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

IOGANZEN, B.G.; GUNDRIZER, A.N.; KAFANOVA, V.V.; KRIVOSHCHEKOV, G.M.

Lake Teletskoye as a unique body of water of the Altai and
an object deserving protection. Izv. Alt. otd. Geog. ob-va
SSSR no.5:216-217 '65.
(MIRA 18:12)

1. Tomskiy gosudarstvennyy universitet.

Map: SEVERO-KRUTINSKIY, rayon. OSU-Am2324 S-157

Ioganzhen, B.G.: Ozero Ik Severo-Krutinskogo Rayona
Zapadnoy Sibiri.
Izv. Gos. Geogr. Obshch. Vol. 67, pp. 367-375, 1935
American Geographical Society, New York, N. Y.
Map, scale 1:420,000, of the lake region including
lakes Ik, Saltain and Tenis.
Area: 56°00' - 56°20' N, 71°30' - 72°00' E

(31)

LYNNER, S. G.
New species of fish from Western Siberia Tomsk, Tip, Krasnoe znamia 1945. 15 p.
(Zametki po faune i flore Sibiri. Biologicheskii fakul'tet Tomskogo gosudarstvennogo
universiteta'Im. V. V. Kuibysheva, Tomskoe obshchestvo ispytatelei prirody. 6)

LOGANZEN, B.G.

Loganzen, B.G. and Gundrizer, A.N. "The NaCl concentration fatal for certain freshwater fish of Siberia," Uchen. zapiski (Tomskiy gos. un-t im. Kuybysheva), No. 11, 1948, p. 27-39, - Bibliog: p. 38-39

SO: U-3261, 10 April 53, (Letopis' zhurnal 'nykh Statey, No. 12, 1949

IOGANZEN, E. G.

Agriculture

First scientific conference on the execution of the Stalin plan for the transformation of nature in Tomsk Province; agricultural section, (Materialy) Pod red E. G. Ioganzen. (Tr. Tomsk. Gos. Univ. Im. V. V. Kuibysheva. T. 114). Tomsk, 1951.

9. Monthly List of Russian Accessions, Library of Congress, December 1951, Uncl.
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IOGANZEN, B. G.

Fisheries - Siberia

Scientific conferences on the fishing industry in western Siberia. Ryb.khoz. 28
no. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED

1. IOGANZEN, B.G., Prof.
2. USSR (600)
4. Fisheries-Siberia, Western
7. Most important problems in the development of the fish industry in Western Siberia., Ryb.khoz., 28, No.11, 1952

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1. IOGANZEN, B. G.: PETKEVICH, A. N.

2. USSR (600)

4. Siberia - Fisheries

7. Transformation of the fishing industry of Western Siberia. Sib. ogni 31 no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

FOGAREV, B. G.

Priroda Tomskoi oblasti [Nature in Tomsk province]. Tomsk, Tomskoe oblastnoe nauchnoe biuro, 1953.

SO: Monthly List of Russian Accessions, Vol 7, No 4, July 1954.

1. IOGANZEN, B. G.
2. USSR 600
4. Rammel'meier, E. S.
7. "Land mollusk fauna of the U.S.S.R." I. M. Likharev, YE. S. Rammel'meier.
Reviewed by B. G. Ioganzen, Zool. zhur, 32, No. 1, 1953.

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IOGANZEN, B.G.

"Transactions of the All-Union Conference on Problems of Fisheries."
Reviewed by B.G.Iogansen. Zool.shur. 33 no.5:1195-1198 S-O '54.
(Fisheries) (MLRA 7:11)

~~IOGANZEN, B.G.~~
IOGANZEN, B.G.

Fertility in fish and its determining factors. Vop. ikht. no. 3:57-
68 '55. (MLRA 8:11)

1. Laboratoriya ikhtologii i gidrobiologii Tomskogo universiteta
imeni V.V. Kuybysheva
(Fishes--Physiology)

Loganzen B.G.

LOGANZEN, B.G.; MOISEYEV, V.P.

The Kara-kol' lavaret from eastern Altai. Zam. po faune i flore Sib.
no.18:15-24 '55. (MIRA 11:1)

1. Laboratoriya ikhtiologii i gidrobiologii Tomskogo gosudarstven-
nogo universiteta imeni V.V. Kuybysheva.
(Tashtyp District--Whitefishes)

Иоганзен, Б.Г.
IOGANZEN, B.G.

Guiding principles in establishing benthonic biocenoses. Zam. po
faune i flore Sib. no.18:63-66 '55. (MIRA 11:1)

1. Laboratoriya ikhtiologii i gidrobiologii Tomskogo gosudarstven-
nogo universiteta imeni V.V. Kuybysheva.
(Fresh-water biology) (Marine biology)

USSR/Scientists - Biology

Card 1/1 Pub. 86 - 6/36

Authors : Loganzon, B. G., Prof.

Title : ~~XXXXXXXXXXXXXXXXXXXX~~
Lamarck and modern biology

Periodical : Priroda 44/6, 50 - 56, Jun 1955

Abstract : A biographical sketch is given of Jean Baptiste Lamarck (1744-1829), noted French botanist and zoologist. An analysis is made of his writings to show that he differed with the concept of a fixed creation, prevailing at his time, and advanced ideas that are in accord with modern views on evolution. Twelve Soviet references (1891- 1951). Illustration.

Institution :

Submitted :

Ioganzhen, B.G.

USSR / General Biology. Evolution

B-7

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 359

Author : Ioganzhen, B.G.

Inst : Not Given

Title : The Conformity of Animal Species to Life Conditions

Orig Pub : Uch. zap. Tomskogo un-ta, 1956, 27, 7-40

Abstract : No abstract.

Card : 1/1

Ioganzhen, B.G.

USSR / General Biology. Evolution

B-1

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 360

Author : Ioganzhen, B.G.

Inst : Not Given

Title : A Reply

Orig Pub : Uch. zap. Tomskogo un-ta, 1956, 27, 125-126

Abstract : The problems of origin of species were solved unsatisfactorily by previous theories, and only the Michurin course represents a creative development of Darwinism. Although T.D. Lysenko expressed some controversial theories, they are not the main ones in the new studies of origin of species. Under the direct influence of environments different seasonal, ecological and geographical forms appear. It is possible that both a speedy "transformation" of species occurs under changed conditions over several generations, as well as a prolonged existence of species in an unchanged condition while the former conditions of existence are preserved. A species determination is given

Card : 1/2

USSR / General Biology. Evolution

B-7

Abs Jour : Ref Zhur - Biol., Lo 1, 1958, No 360

which includes 4 criteria: a morphological one (accounting for changes and hiatuses), a physiological, a geographical, and an ecological one (accounting for the difference of intra-species relations). The difficulties of species demarcation by these criteria prove the presence in nature of different paths of origin of species. The author explains the intermittent origin of species not as a sudden regeneration, but as a qualitative change. The origin of species in animals and plants manifests differences which lead to divergence in concepts of species by zoologists and botanists. Acknowledging the existence of divergence, the author does not consider it a consequence of intraspecies struggle. Numerous examples are cited of the differences between intraspecies and interspecies relations. Overpopulation is viewed as a temporary and relative phenomenon, which can only hasten the process of origin of species. In this reply the speaker takes issue with L.V. Shumilova and disputes the contradictions and errors in Darwin's studies.

Card : 2/2

IOGANZEN, B.G.

Plenum of the ichthyological commission of the Academy of Sciences
of the U.S.S.R. Zool.shur.35 no.5:791-792 My '56. (MIRA 9:9)
(Ichthyology)

IOGANSSEN, B.G.

"Animal ecology" by N.P.Naumov. Reviewed by B.G.Iogansen. Zool.
zhur. 35 no.9:1423-1427 S '56. (MLRA 9:12)
(Zoology--Ecology) (Naumov, N.P.)

IOGANZEN, B.G.

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AUTHOR: Ioganzon, B. G., and Pegel', V. A.

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PERIODICAL: Uch. zap. Tomskiy un-t, 1957 (1958), Nr 30, pp 145-152

ABSTRACT: Bibliographic entry.

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(Darwin, Charles Robert, 1809-1882)
(Evolution)

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SOV/26-59-3-9/47

AUTHOR: Ioganzon, B.G., Professor, and Petkevich, A.N.,
Candidate of Biological Sciences

TITLE: The Protection of Fishes of West Siberia

PERIODICAL: Priroda, 1959, Nr 3, pp 49 - 54 (USSR)

ABSTRACT: West Siberia, with its huge Ob River basin and adjoining big systems of lakes, like the Baraba, Kulunda and North Kazakhstan, represents a most important fishery district. The local reservoirs are inhabited by over 50 species and subspecies of fishes, including such valuable ones as the Siberian sturgeon, ~~gryndal~~, a salmon species etc. Fishing in West Siberia yields several tens of thousands of tons yearly, and exceeded 70,000 tons in some years. The quantities would be larger if the protection of water from pollution and melioration works were better organized. Until recently the restocking of fish in the reservoirs of Western Siberia was given no attention. This explains the fact that in the

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Ob' basin, where for many years the Ust'-Kamenogorsk and the Novosibirsk GES have been operating, thereby greatly disturbing the spawning conditions of the sturgeon and white salmon, not a single fish-breeding, spawning and fish raising farm has been erected. In some instances extraordinary measures are required to stop the pollution of reservoirs. The author gives particulars on the disappearance of fishes caused by the Omskiy nefteperegonnyy zavod (Omsk Petroleum Refinery) which polluted the waters of the Irtysh and Ob' Rivers for hundreds of kilometers. In recent years, some large plants have begun to build special cleaning installations, but numerous enterprises of the Altay and Kuzbass, and of the cities of Omsk, Barnaul, Novosibirsk, Tomsk, etc. still discharge their waste directly into natural waters. The author points out the principal measures to be adopted for the cleaning of

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waters and the protection of fishes when erecting hydroelectric power stations. He mentions in this connection the Bukhtarminskaya and Shul'binskaya (Bukhtarma and Shul'ba) GES and those intended to be built at the Irtysh and Ob' Rivers. The Novosibirsk Sovnarkhoz has decided to erect a sturgeon and white salmon fish-breeding plant at the dam of the Novosibirsk GES. The Tomsk Sovnarkhoz intends to build a plant for breeding Coregonus maksun and Coregonus pelea in the Shegarka district. The author deals with the prohibited methods of fishing, the unlawful catching of young fishes and the winter fishing in the bays, resulting in the destruction of over 90 % of young fishes according to observations made by B.K. Moskalenko. He calls attention to the detrimental influence of natural factors (draining, freezing, salting, underfeeding, parasites, etc.). In this connection he mentions

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a recommendation issued by the Novosibirsk branch of the GosNIORKh (Gosudarstvennyy nauchno issledovatel'skiy institut ozernogo i rechnogo rybnogo khozyaystva - State Scientific-Research Institute of the Lake and River Fishing Economy). There are 3 photographs.

ASSOCIATION: Tomskiy gosudarstvennyy universitet imeni V.V. Kuybysheva (Tomsk State University imeni V.V. Kuybyshev (Iogarzen) and Novosibirskoye Otdeleniye Gosudarstvennogo nauchno- issledovatel'skogo instituta ozernogo - rechnogo rybnogo khozyaystva (The Novosibirsk Department of the State Scientific-Research Institute of Lake and River Fishing Economy) (Petkevich).

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